AUG 19 2014

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

A

Permit Number
HS000956

Onsite Wastewater Treatment System
Request for Site Clearance and Permit

Include Form B and C.
Submit correct fee
with this Application

3 acres or more required for: ☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Wastewater Treatment System in conformance with appropriate regulations.

PLEASE PRINT OR TYPE

A. Onsite System Location

Address 16707 S. 190th St (no rural route) City Bennett, NE Zip 68317

Legal Description NE 24 8N 8E 14
1/4 | 1/4 | Section | Township | Range | Subdivison | Addition | Block | Lot

PID 21-24-400-006-000

B. Owner

Name Steve & Kristi Tyndall Signature Steve Tyndall

Address 16707 S. 190th St City/State/Zip Bennett, NE 68317

Home Phone 402-450-9201 Work Phone

C. Certified Installer

Name: Lloyd Jakowlek, Raymond Contracting Inc. Signature Kurt L. Jakowlek for Lloyd

Address 13802 NW 70th St City/State/Zip Raymond, NE 68428

Work Phone 402-890-6009

D. Engineer ☑ Check and complete if engineer designed system P.E. License Number: E8989

Designer Name Jeff Schoeneck Firm Horizon Environtech, LLC Work Phone 402-770-9209

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 3 Whirlpool Bathtub? ☑ Yes ☐ No Total Acres 38.41
Garbage Grinder? ☑ Yes ☐ No

☐ Commercial Establishment/Other Facility Specify _____ Design flow in gallons per day _____

Type of Wastewater ☐ Domestic ☐ Non-Domestic

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☐ County Resolution No. 02-30

1. Health Department ACTION ☐ Approved ☐ Disapproved
Site visits _____ Date rec'd _____ Signature _____
Date frwd _____
Comments _____

2. Supt. Bldg. Insp. or Village Clerk ACTION ☐ Approved ☐ Disapproved
Comments _____ Date rec'd _____ Signature _____
Date frwd _____

3. City or County Engineer ACTION ☐ Approved ☐ Disapproved
Comments _____ Date rec'd _____ Signature _____
Date frwd _____

Installation Final Written Approval
By _____
Date _____

Business Office Use Only
Date Received 8-19-14 Amount Paid 365.00
Received By SB Cash/Check No. 8448

White - Health Department Yellow - Engineer Pink - Building & Safety

Soil Absortion Test Data Sheet

Owner Information:

Owner: Steve & Kristi Tyndall Phone: _____

Address: 16707 S. 190th St, Bennett, NE

Location: Same

Latitude 40 38 44.91N Longitude 96 27 56.42W

Township _____ Range _____ Sec. _____ 1/4 sec. _____

County: Lancaster Area: 40.00 Acres

Soil type: Sand/Loamy Sand _____ Silt Loam _____

Sand _____ Silt _____ Clay _____ Sandy Si Loam _____

Silty Clay Loam X Silt Loam X Sandy Loam _____

Presaturation period:

Start		Finish	
Date	Time	Date	Time
6/10/14	12:30 PM	6/10/14	4:30: PM

Weather Sunny Temp. 75

Percolation test data:

Hole No.	Hole Depth (in.)	Final Percolation Readings: Start Date Mo./Day	Start Time (Hr./Min.)	Start Water Level (in.)	End (Hr./Min.)	End Water Level (in.)	Final Results: Elapsed Time (Min.)	Water Level Drop (in.)	Percolation Rate (Min./Inch)
1	21	6/11/14	10:14 AM	8.10	10:44 AM	7.30	30	0.80	37.5
2	21	6/11/14	10:15 AM	7.95	10:45 AM	6.45	30	1.50	20.0
3	21	6/11/14	10:16 AM	8.05	10:46 AM	6.65	30	1.40	21.4

Jeffery N Schoeneck

Jeffery N. Schoeneck, P.E.
26720 Elkhorn Oaks Cir
Arlington, NE 68002
(402) 720-9209
Phone

Sum of Percolation rates = 78.9

Number of test holes = 3.0

Average of rates in Minutes/inch = 26.3

*If rates vary more than 20 minutes/inch, do not average but use the slowest rate for design purposes.

10 foot Boring - 0-20 Silt Loam (Glacial Till Soils)
20-39 Silty Clay Loam
39-120 Clay Loam w Some mottling
- No evidence of Water Table in profile

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

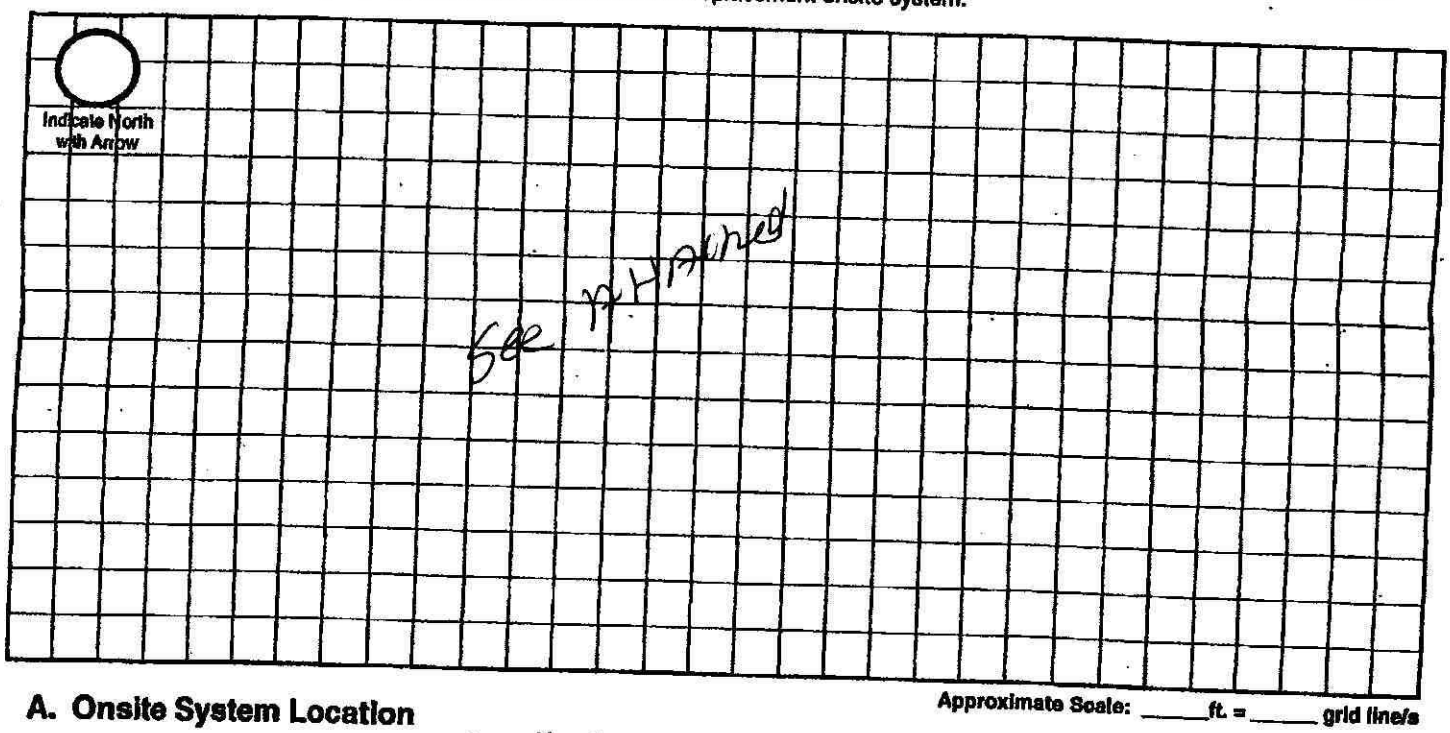
C

Permit Number: HS000956

Onsite Wastewater Treatment System

Preliminary Plan Specifications

Draw a plot plan showing onsite system sewer lines, drop of distribution boxes, tank, drainfields, percolation test holes, well, residence, direction of groundwater flow, property lines, and reserve area for replacement onsite system.



Approximate Scale: _____ ft. = _____ grid line/s

A. Onsite System Location

Address (no rural route) 16707 S. 190th St City Bennett NE, Zip 68317

B. Proposed Septic Tank/s

Septic Tank Cap. 1500 gals Tank Material: ☒ Concrete ☐ Plastic ☐ Other _____ ☐ Lagoon (Max. seepage 1/8" per day)

C. Reserve Area for Replacement Onsite System

☐ Drainfield Absorption Area (percolation test required) ☐ Lagoon

D. Drainfield Absorption System

Percolation Rate 26 (min/inch = mpi) No. of Bedrooms 3 Soil Type Silt Loam / Silty Clay Loam Land Slope _____ %

☒ Trench ☐ Bed ☐ Non-Standard (engineer designed and NDEQ approved Total Square feet of drainfield 840 sq.ft.

Total length of laterals 210 Type of distribution: ☐ Perforated pipe ☐ Half-Round ☒ Chamber ☐ Other

No. of absorption trenches 3 Width 40" No. of drop boxes 3 (endcaps) Distrubtion Box _____

No. of absorption beds _____ Width _____ No of Distribution lines per bed _____

E. Setbacks Check the Boxes Below if the Required Setback has been Satisfied

Distance From	Private Well	Public Well	Surface Water	Gound Water	Pressure Water Lines	Property Lines	Foundations Yours	Foundations Neighbors	All Other Setbacks
Tank (ft)	50 ☒	500 ☒	50 ☒	NA ☐	25 ☒	20 ☒	15 ☒	25 ☒	☐
Field (ft)	100 ☒	500 ☒	50 ☒	4 ☒	30 ☒	20 ☒	30 ☒	40 ☒	☐
Lagoon (ft)	100 ☐	500 ☐	50 ☐	N/A ☐	30 ☐	50 ☐	100 ☐	200 ☐	☐

F. Required Signatures

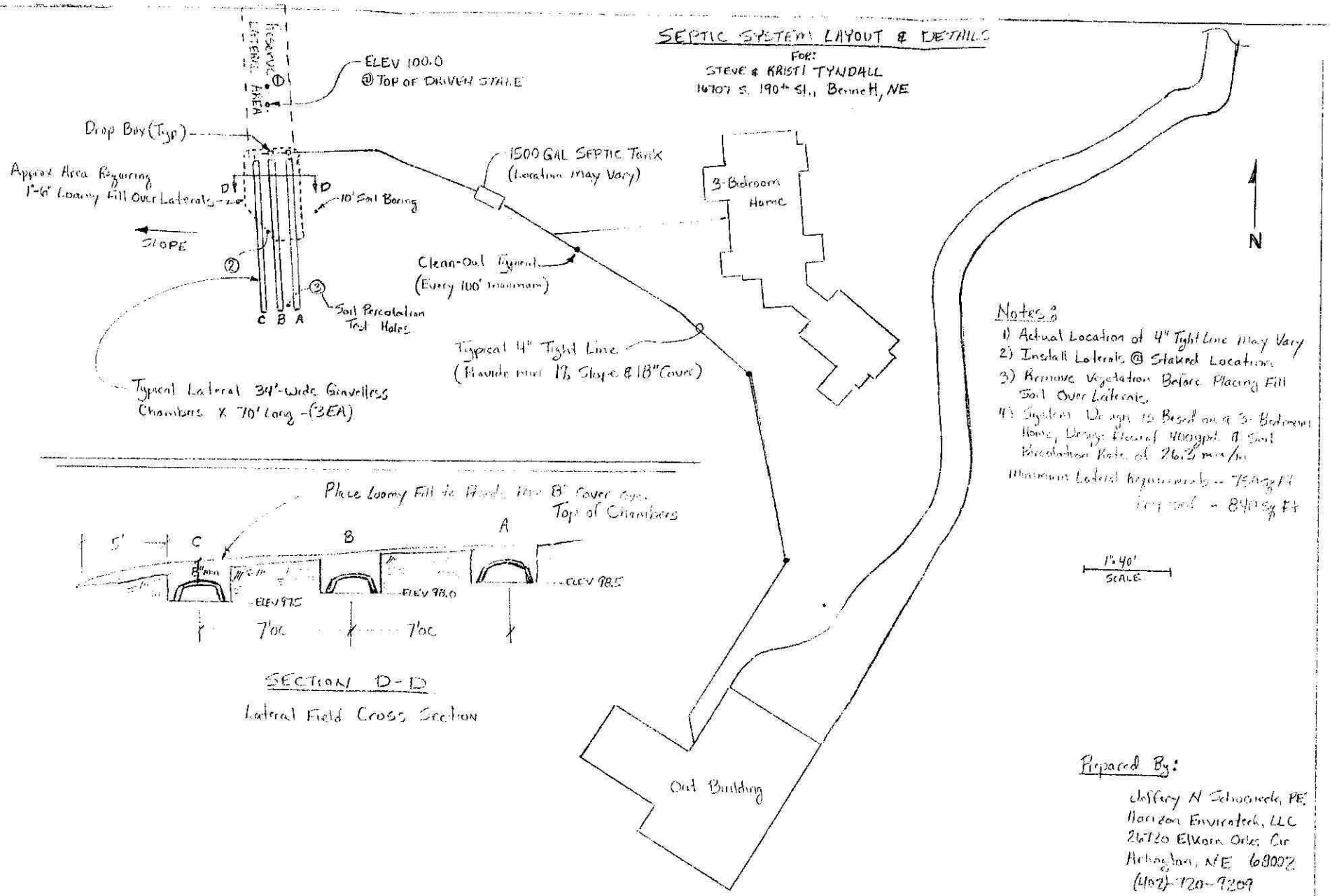
Home Building Contractor _____ Date 8/15/14

Installer _____ Date 8/15/14

Onsite Form C 12-06

SEPTIC SYSTEM LAYOUT & DETAILS

FOR:
STEVE & KRISTI TYNDALL
16707 S. 190th St., Bennet, NE



SECTION D-D
Lateral Field Cross Section

Notes:

1) Actual Location of 4" Tight Line May Vary
2) Install Laterals @ Staked Locations
3) Remove Vegetation Before Placing Fill Soil Over Laterals.
4) System Design is Based on a 3-Bedroom Home, Design Flow of 400 gpd & Soil Percolation Rate of 26.2 min/in
Minimum Lateral Requirements - 756 Sq Ft
Proposed - 840 Sq Ft

Prepared By:

Jeffery N Schoenrock, PE
Horizon Enviroteck, LLC
26720 Elkhorn Oaks Cir
Arbington, NE 68002
(402)-720-9209

190th St

Lincoln-Lancaster County Health Department
Environmental Public Health Division (402) 441-8027
3140 N Street Lincoln, Nebraska 68510-1514

ON-SITE WASTE WATER SYSTEM
CONSTRUCTION - INSTALLATION PERMIT
No. HS000956

System Type: Lagoon

Situs: 16707 S 190TH ST., RURAL, NE

Issued: 8/21/2014

Expires: 8/21/2015

Description: S24, T8, R8, 6th Principal Meridian, LOT 14 E1/2

Owner: TYNDALL, STEVE & KRISTINA
9601 S 53 ST
LINCOLN, NE 68516

Judith A Halstead
Judith A. Halstead, MS, Health Director

Dear Applicant:

The above document is your permit to construct a new On-site Waste Water System at the location listed. Please contact this office once the sytem is complete in order to schedule a final inspection before use.

Judith A Halstead
Judith A. Halstead, MS
Health Director

RAYMOND CONTRACTING
13800 NW 70TH ST
RAYMOND, NE 68428

AUG 19 2014

SCANNED

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

A

Permit Number
HS000956

Onsite Wastewater Treatment System
Request for Site Clearance and Permit

Include Form B and C.
Submit correct fee
with this Application

3 acres or more required for: ☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Wastewater Treatment System in conformance with appropriate regulations.

Issued as Lagoon until Variance passes

PLEASE PRINT OR TYPE

A. Onsite System Location

Address 16707 S. 190th St (no rural route) City Bennett, NE Zip 68317

Legal Description NE 24 8N 8E 14
1/4 | 1/4 | Section | Township | Range | Subdivison | Addition | Block | Lot

PID 21-24-400-006-000

B. Owner

Name Steve & Kristi Tyndall Signature Steve Tyndall

Address 16707 S. 190th St City/State/Zip Bennett, NE 68317

Home Phone 402-450-9201 Work Phone

C. Certified Installer

Name: Lloyd Jakowbek, Raymond Contracting Inc. Signature Kurt L. Jakowbek for Lloyd

Address 13800 NW 70th St City/State/Zip Raymond, NE 68428

Work Phone 402-890-6009

D. Engineer

☒ Check and complete if engineer designed system P.E. License Number: E8989

Designer Name Jeff Schoeneck Firm Horizon Enviro-tech, LLC Work Phone 402-730-9209

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 3 Whirlpool Bathtub? ☒ Yes ☐ No Total Acres 38.41
Garbage Grinder? ☒ Yes ☐ No

☐ Commercial Establishment/Other Facility Specify _____ Design flow in gallons per day _____

Type of Wastewater ☐ Domestic ☐ Non-Domestic

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☐ County Resolution No. 02-38

1. Health Department Partial
Site visits 10/20/14 Sewer Install Completed
Comments _____
Date rec'd 8/20/14
Date frwd 8/20/14
ACTION ☒ Approved ☐ Disapproved
Signature _____

2. Supt. Bldg. Insp. or Village Clerk
Comments _____
Date rec'd _____
Date frwd _____
ACTION ☐ Approved ☐ Disapproved
Signature _____

3. City or County Engineer
Comments _____
Date rec'd 8-20-14
Date frwd 8-20-14
ACTION ☒ Approved ☐ Disapproved
Signature Jim Blazek

Installation Final Written Approval
By _____
Date 10/23/14

Business Office Use Only
Date Received 8-19-14 Amount Paid 365.00
Received By SB Cash/Check No. 8448

White - Health Department Yellow - Engineer Pink - Building & Safety

OCT 24 2014

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

D

Permit Number: HS0009516

Onsite Wastewater Treatment System

As Built Plans & Specifications

Date Oct 21, 2014 Legal Description NE 1/4 1/4 24 Section - 8N Township - 8E Range

Onsite System Location

Address (no rural route) 16707 S. 190th St City Bennet NE, Zip 68317

Owner Steve & Kristi Tyndall Address same

A. Sewer Pipe

1. Material: SDR 26
   Diameter: 4 in.
2. Distance above basement floor: _____ in.
   or distance below basement floor: 16 in.
3. Distance between dwelling and septic tank: 118 ft.
4. Number of clean-outs: 2
5. Distances to: well or suction line 100+ ft.
   stream 100+ ft.
   pressure line 100+ ft.
   property line 100+ ft.

B. Septic Tank

☒ Label with Manufacturer, address and gallon capacity

1. Material: Concrete
   Number of compartments: one
2. Capacity: 1500 gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter 24 in.
   Over outlet, diameter 24 in.
   Riser: ☐ above ☐ below grade AT in.
5. Inlet: ☒ baffle ☐ tee ☐ 6" dia. inspection pipe
6. Outlet: ☒ baffle ☐ tee ☐ 6" dia. inspection pipe
7. Depth to top of tank, below unfinished grade: 12" in.
8. Distances to: Well or suction line 100 ft.
   Stream 100 ft.
   Pressure line 100 ft.
   Property line 100 ft.

C. ☐ Distribution Box ☐ Drop Boxes

(≥ 12" inspection opening) (removable lid to inspect)

1. Material: plastic End caps.
   Number available outlets: 2 per cap
2. Factory built: ☒ Yes ☐ No
3. Distance from septic tank: 112 + 8 + 8 ft.

D. Drainfield Absorption

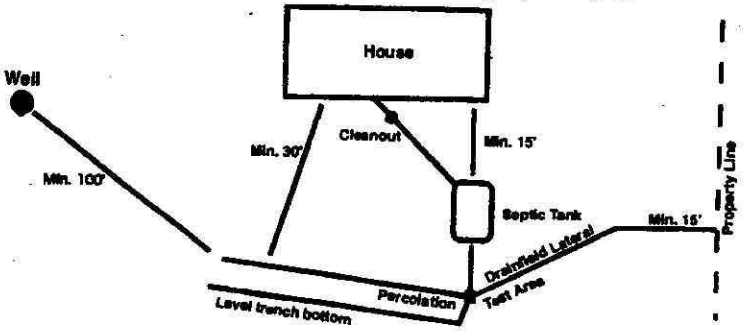
☒ Trench ☐ Bed ☐ Level Bottom

1. Type: ☐ Half rounds ☐ Perforated pipe ☐ Chambers
   Diameter or width: _____
   Number of distribution lines in bed _____
   Material: ☐ fiberglass ☐ plastic ☐ concrete
   ☐ other _____
2. Drainfield Laterals: Number 3
   Length of each line: 70 ft. 70 ft.
   70 ft. _____ ft., _____ ft.
3. Drainfield dimensions: Width 40" ft.
   Distribution Pipe Slope Flat in/100 ft.
   Average depth 21-24 in
4. Filter material: Soil
   Depth of material 21-24 in.
5. Distances to: Well or suction line 100 ft.
   Pressure line 100 ft.
   Property line 100 ft.
   House or building 100 ft.
   Lake or Stream 100 ft.

Complete As-Built drawing on the back fo this form.

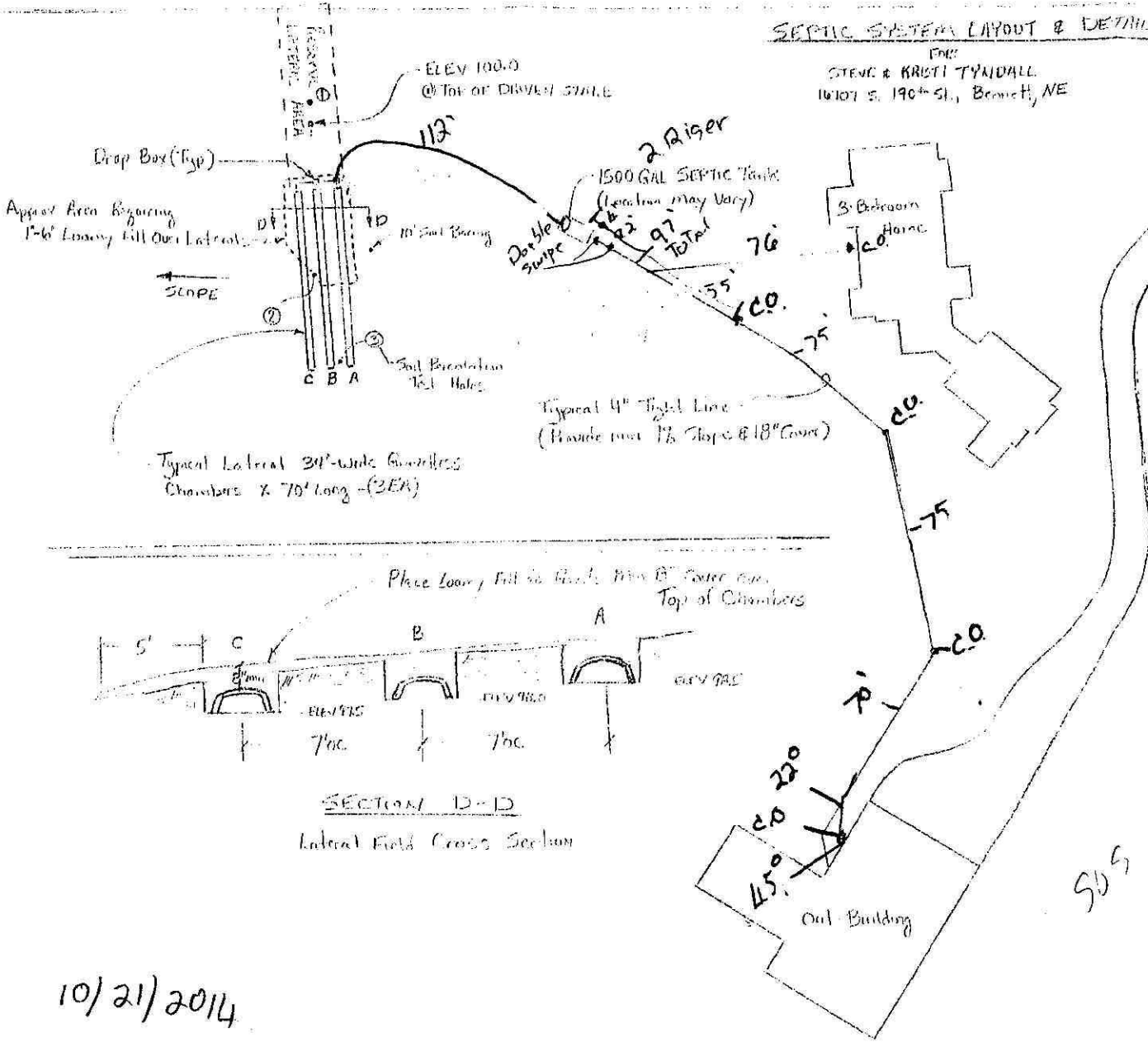
Onsite Wastewater System Design (Example)

Indicate North with Arrow



SEPTIC SYSTEM LAYOUT & DETAILS

FOR:
STEVE & KRISTI TYNDALL
16107 S. 190th St., Bennet, NE



SECTION D-D
Lateral Field Cross Section

Notes:
1) Actual Location of 4" Tight Line may Vary
2) Install Laterals @ Staked Locations
3) Remove Vegetation Before Placing Fill Soil Over Laterals
4) System Design is Based on a 3 Bedroom Home, Using Chemsol 400gpd & Soil Percolation Rate of 26.3 min/in
Maximum Lateral Required = 750 sq ft
Proposed = 840 sq ft

Prepared By:
Jeffrey N Schoenecke, PE
Horizon Envirotech, LLC
26720 Elkhorn Drive Cir
Bellevue, NE 68007
(402) 720-7209

10/21/2014

Raymond Contracting, Inc.
Lloyd J Jakoubek
13800 NW 70th St
Raymond, NE 68428
402-783-2663

AUG 19 2014

SCANNED

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

A

Permit Number
HS000956

Onsite Wastewater Treatment System
Request for Site Clearance and Permit

Include Form B and C.
Submit correct fee
with this Application

3 acres or more required for: ☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Wastewater Treatment System in conformance with appropriate regulations.

Issued as Lagoon until VC connect number passes perc's

PLEASE PRINT OR TYPE

A. Onsite System Location

Address 16707 S. 190th St (no rural route) City Bennett, NE Zip 68317

Legal Description NE 24 8N 8E 14
1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID 21-24-400-0016-000

B. Owner

Name Steve & Kristi Tyndall Signature Steve Tyndall

Address 16707 S. 190th St City/State/Zip Bennett, NE 68317

Home Phone 402-450-9201 Work Phone

C. Certified Installer

Name: Lloyd Jakowlek, Raymond Contracting Inc. Signature Kristi L. Jakowlek for Lloyd

Address 13800 NW 70th St City/State/Zip Raymond, NE 68428

Work Phone 402-890-6009

D. Engineer

☒ Check and complete if engineer designed system P.E. License Number: E8989

Designer Name Jeff Schoeneck Firm Horizon Envirotech, LLC Work Phone 402-720-9209

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 3 Whirlpool Bathtub? ☑ Yes ☐ No Total Acres 38.41
Garbage Grinder? ☑ Yes ☐ No

☐ Commercial Establishment/Other Facility Specify Design flow in gallons per day

Type of Wastewater ☐ Domestic ☐ Non-Domestic

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☐ County Resolution No. 02-30

1. Health Department Partial
Site visits 10/20/14 Some Install Completed
Comments
Date rec'd 8/20/14
Date frwd 8/20/14
ACTION ☒ Approved ☐ Disapproved
Signature

2. Supt. Bldg. Insp. or Village Clerk
Comments
Date rec'd
Date frwd
ACTION ☐ Approved ☐ Disapproved
Signature

3. City or County Engineer
Comments
Date rec'd 8-20-14
Date frwd 8-20-14
ACTION ☒ Approved ☐ Disapproved
Signature Jim Plouzek

Installation Final Written Approval
By
Date 10/23/14

Business Office Use Only
Date Received 8-19-14 Amount Paid 365.00
Received By SB Cash/Check No. 8448

White - Health Department Yellow - Engineer Pink - Building & Safety

SCANNED

Soil Absortion Test Data Sheet

Owner Information:

Owner: Steve & Kristi Tyndall Phone: _____

Address: 16707 S. 190th St, Bennett, NE

Location: Same

Latitude 40 38 44.91N Longitude 96 27 56.42W

Township _____ Range _____ Sec. _____ 1/4 sec. _____

County: Lancaster Area: 40.00 Acres

Soil type: Sand/Loamy Sand _____ Silt Loam _____

Sand _____ Silt _____ Clay _____ Sandy Si Loam _____

Silty Clay Loam X Silt Loam X Sandy Loam _____

Presaturation period:

Weather Sunny Temp. 75

Start Date	Start Time	Finish Date	Finish Time
6/10/14	12:30 PM	6/10/14	4:30: PM

Percolation test data:

Hole No.	Hole Depth (in.)	Final Percolation Readings: Start Date Mo./Day	Start Time (Hr./Min.)	Start Water Level (in.)	End (Hr./Min.)	End Water Level (in.)	Final Results: Elapsed Time (Min.)	Water Level Drop (in.)	Percolation Rate (Min./Inch)
1	21	6/11/14	10:14 AM	8.10	10:44 AM	7.30	30	0.80	37.5
2	21	6/11/14	10:15 AM	7.95	10:45 AM	6.45	30	1.50	20.0
3	21	6/11/14	10:16 AM	8.05	10:46 AM	6.65	30	1.40	21.4

Jeffery N Schoeneck

Jeffery N. Schoeneck, P.E.
26720 Elkhorn Oaks Cir
Arlington, NE 68002
(402) 720-9209
Phone

Sum of Percolation rates = 78.9

Number of test holes = 3.0

Average of rates in Minutes/inch = 26.3

*If rates vary more than 20 minutes/inch, do not average but use the slowest rate for design purposes.

10 foot Boring - 0-20 Silt Loam (Glacial Till Soils)
20-39 Silty Clay Loam
39-120 Clay Loam w Some mottling
- No evidence of Water Table in profile

Soil Absortion Test Data Sheet

Owner Information:

Owner: Steve &Kristi Tyndall Phone: _____

Address: 16707S 190th St, Bennett,NE

Location: Same

Latitude 40 38 44.91N Longitude 96 27 56.42W

Township _____ Range _____ Sec. _____ 1/4 sec. _____

County: Lancaster Area: 40.00 Acres

Soil type: Sand/Loamy Sand _____ Silt Loam _____

Sand _____ Silt _____ Clay _____ Sandy Si Loam _____

Silty Clay Loam X Silt Loam X Sandy Loam _____

Presaturation period:

Start Finish Weather Sunny Temp. 84

Date	Time	Date	Time
08/19/14	6:00 PM	08/19/14	10:00 PM

Percolation test data:

Hole No.	Hole Depth (in.)	Final Percolation Readings: Start Date Mo./Day	Start Time (Hr./Min.)	Start Water Level (in.)	End (Hr./Min.)	End Water Level (in.)	Final Results: Elapsed Time (Min.)	Water Level Drop (in.)	Percolation Rate (Min./Inch)
1A	21	6/11/14	10:15 AM	7.95	10:45 AM	6.45	30	1.50	20.0
2B	21	8/20/14	12:01PM	8.15	12:31 PM	7.30	30	0.85	35.3
3B	24	8/20/14	12:02PM	8.00	12:32 PM	6.80	30	1.20	25.0
4A	21	6/11/14	10:16 AM	8.05	10:46 AM	6.65	30	1.40	21.4
5B	24	8/20/14	12:03PM	7.8	12:33 PM	6.15	30	1.65	18.2
6B	24	8/20/14	12:04PM	8.2	12:34 PM	6.85	30	1.35	22.2

Jeffery N Schoeneck

Jeffery N. Schoeneck, P.E.
26720 Elkhorn Oaks Cir
Arlington, NE 68002
(402) 720-9209
Phone

Sum of Percolation rates = 142.1

Number of test holes = 6.0

Average of rates in Minutes/inch = 23.7

*If rates vary more than 20 minutes/inch, do not average but use the slowest rate for design purposes.

Test Holes "A" From Earlier Test on 6/11/14

SCANNED

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

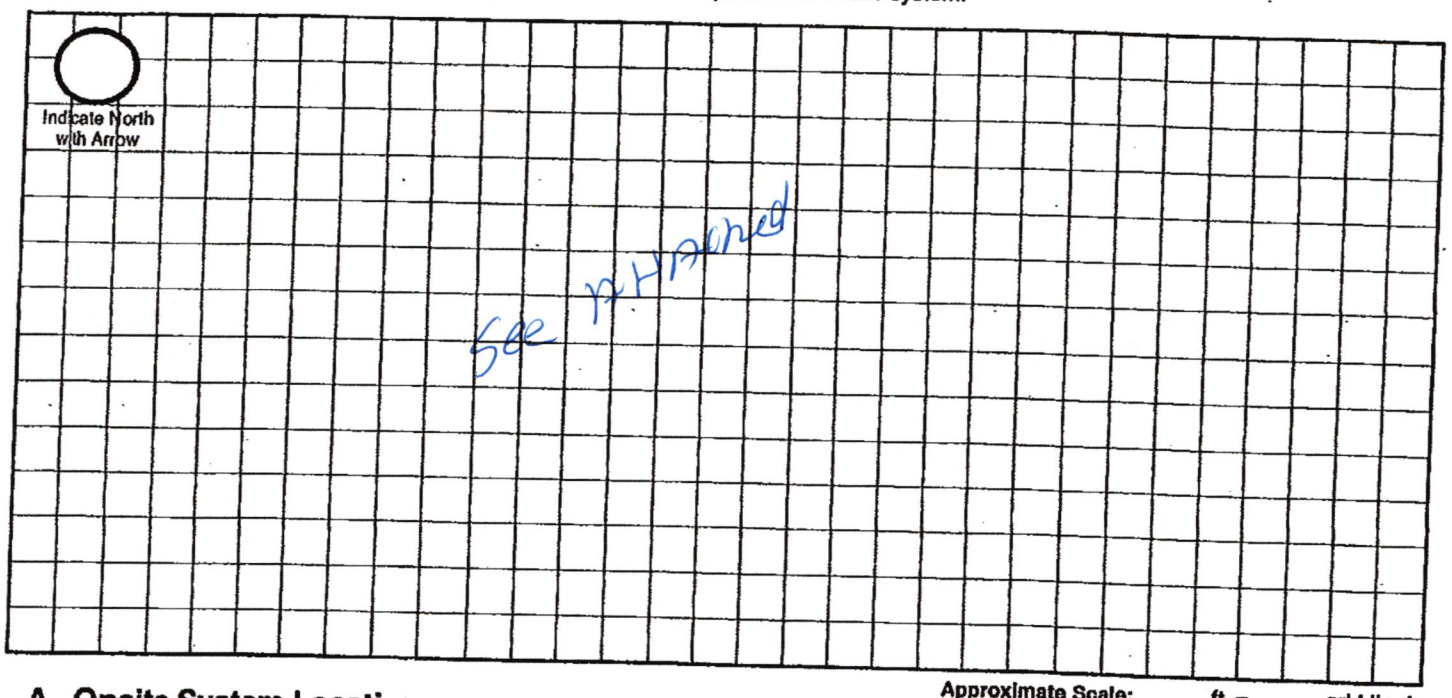
C

Permit Number: HS000956

Onsite Wastewater Treatment System

Preliminary Plan Specifications

Draw a plot plan showing onsite system sewer lines, drop of distribution boxes, tank, drainfields, percolation test holes, well, residence, direction of groundwater flow, property lines, and reserve area for replacement onsite system.



Approximate Scale: _____ ft. = _____ grid line/s

A. Onsite System Location

Address (no rural route) 16757 S. 190th St City Bennett NE, Zip 68317

B. Proposed Septic Tank/s

Septic Tank Cap. 1500 gals Tank Material: ☒ Concrete ☐ Plastic ☐ Other_____ ☐ Lagoon(Max. seepage 1/8" per day)

C. Reserve Area for Replacement Onsite System

☐ Drainfield Absorption Area (percoloation test required) ☐ Lagoon

D. Drainfield Absorption System

Percolation Rate 26 (min/inch = mpi) No. of Bedrooms 3 Soil Type Silt Loam / Silty Clay Loam Land Slope_____%

☒ Trench ☐ Bed ☐ Non-Standard (engineer designed and NDEQ approved Total Square feet of drainfield 840 sq.ft.

Total length of laterals 210 Type of distribution: ☐ Perforated pipe ☐ Half-Round ☒ Chamber ☐ Other

No. of absorption trenches 3 Width 40" No. of drop boxes 3 (end caps) Distrubtion Box_____

No. of absorption beds_____ Width_____ No of Distribution lines per bed_____

E. Setbacks Check the Boxes Below if the Required Setback has been Satisfied

Distance From	Private Well	Public Well	Surface Water	Gound Water	Pressure Water Lines	Property Lines	Foundations Yours	Foundations Neighbors	All Other Setbacks
Tank (ft)	50 ☒	500 ☒	50 ☒	NA ☐	25 ☒	20 ☒	15 ☒	25 ☒	☐
Field (ft)	100 ☒	500 ☒	50 ☒	4 ☒	30 ☒	20 ☒	30 ☒	40 ☒	☐
Lagoon (ft)	100 ☐	500 ☐	50 ☐	N/A ☐	30 ☐	50 ☐	100 ☐	200 ☐	☐

F. Required Signatures

Home Building Contractor _____ Date 8/15/14

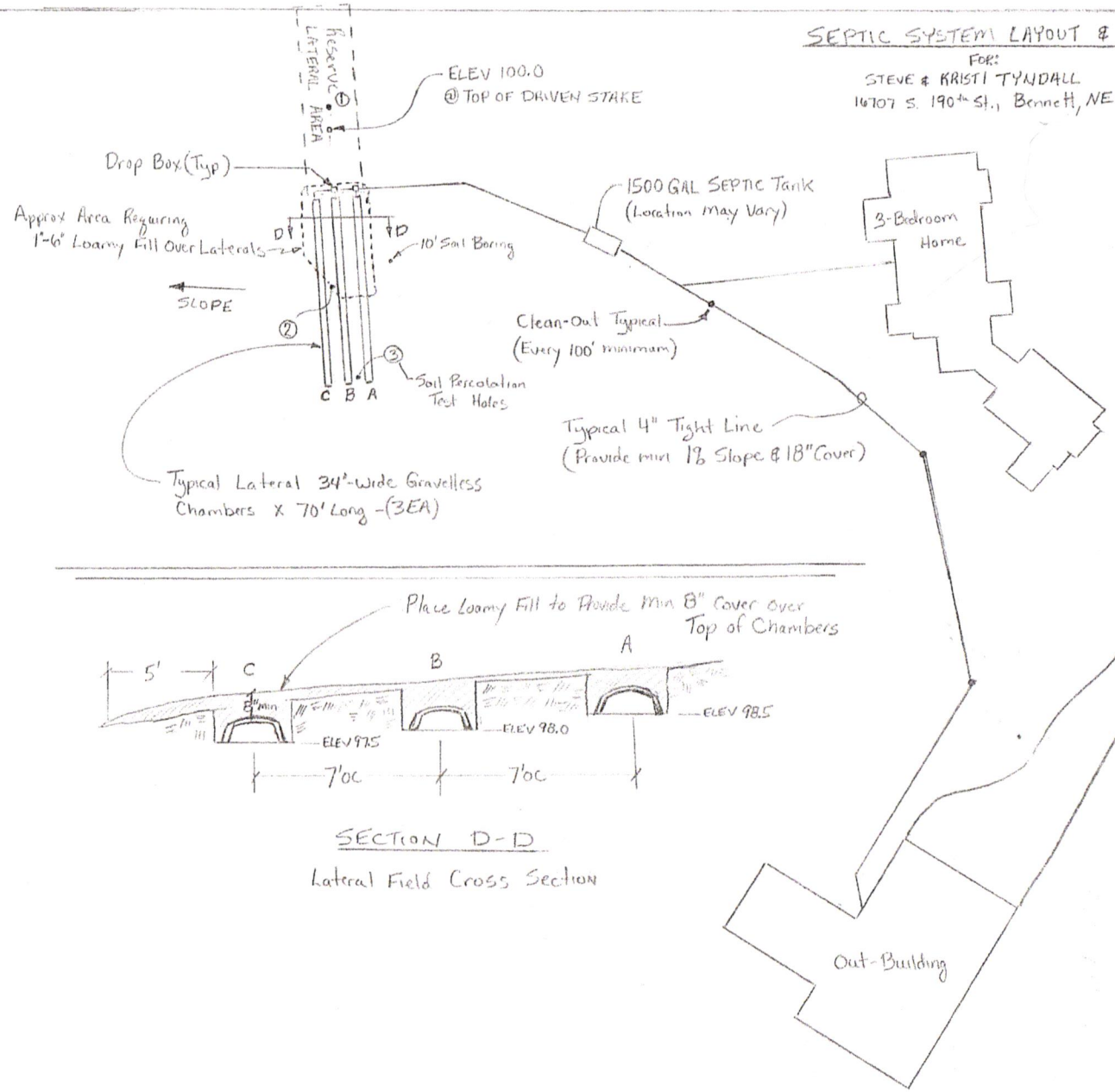
Installer Dan K. Johnson Date 8/15/14

Onsite Form C 12-06

SCANNED

SEPTIC SYSTEM LAYOUT & DETAILS

FOR:
STEVE & KRISTI TYNDALL
16707 S. 190th St., Bennett, NE



SECTION D-D

Lateral Field Cross Section

Notes:

1) Actual Location of 4" Tight Line May Vary
2) Install Laterals @ Staked Location
3) Remove Vegetation Before Placing Fill Soil Over Laterals
4) System Design is Based on a 3-Bedroom Home, Design Flow of 400gpd & Soil Percolation Rate of 26.3 min/in

Minimum Lateral Requirements - 750 Sq Ft
Proposed - 840 Sq Ft

1" = 40'
SCALE

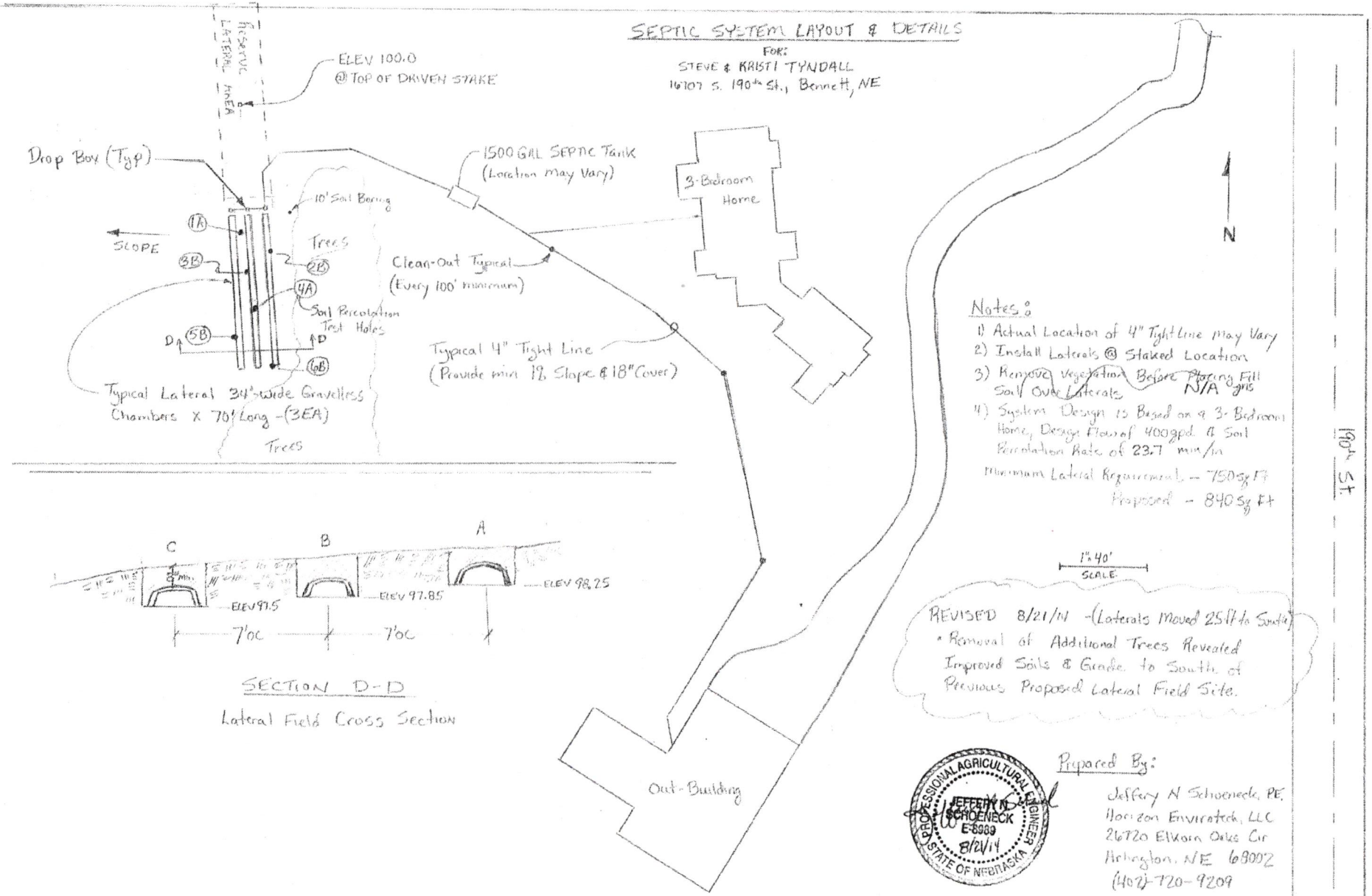
Prepared By:

Jeffery N Schoeneck, P.E.
Horizon Envirotech, LLC
26720 Elkorn Oaks Cir
Arlington, NE 68002
(402) 720-9209

190th St

SEPTIC SYSTEM LAYOUT & DETAILS

FOR:
STEVE & KRISTI TYNDALL
16707 S. 190th St., Bennett, NE



SECTION D-D

Lateral Field Cross Section

Notes:

1) Actual Location of 4" Tight Line May Vary
2) Install Laterals @ Staked Location
3) Remove Vegetation Before Placing Fill Soil Over Laterals ~~N/A~~ yes
4) System Design is Based on a 3-Bedroom Home, Design Flow of 400 gpd & Soil Percolation Rate of 23.7 min/in

Minimum Lateral Requirement - 750 sq ft
Proposed - 840 sq ft

1" = 40' SCALE

REVISED 8/21/14 - (Laterals Moved 25ft to South)
- Removal of Additional Trees Revealed Improved Soils & Grade to South of Previous Proposed Lateral Field Site.

PROFESSIONAL AGRICULTURAL ENGINEER
JEFFERY N. SCHOENECK
E-8989
8/21/14
STATE OF NEBRASKA

Prepared By:

Jeffery N Schoeneck, PE
Horizon Enviroteck, LLC
26720 Elkorn Oaks Cir
Arlington, NE 68002
(402) 720-9209

SCANNED

OCT 24 2014

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

D

Permit Number: HS0009516

Onsite Wastewater Treatment System

As Built Plans & Specifications

Date Oct. 21, 2014 Legal Description NE 1/4 1/4 24-8N-8E Section Township Range

Onsite System Location

Address (no rural route) 16707 S. 190th St City Bennet NE, Zip 68317

Owner Steve & Kristi Tyndall Address same

A. Sewer Pipe

1. Material: SDR 26
   Diameter: 4 in.
2. Distance above basement floor: _____ in.
   or distance below basement floor: 16 in.
3. Distance between dwelling and septic tank: 118 ft.
4. Number of clean-outs: 2
5. Distances to: well or suction line 100+ ft.
   stream 100+ ft.
   pressure line 100+ ft.
   property line 100+ ft.

B. Septic Tank

☑ Label with Manufacturer, address and gallon capacity

1. Material: Concrete
   Number of compartments: one
2. Capacity: 1500 gal.
3. Factory built: ☑ Yes ☐ No
4. Manholes: Over inlet, diameter 24 in.
   Over outlet, diameter 24 in.
   Riser: ☐ above ☐ below grade AT in.
5. Inlet: ☑ baffle ☐ tee ☐ 6" dia. inspection pipe
6. Outlet: ☑ baffle ☐ tee ☐ 6" dia. inspection pipe
7. Depth to top of tank, below unfinished grade: 12" in.
8. Distances to: Well or suction line 100 ft.
   Stream 100 ft.
   Pressure line 100 ft.
   Property line 100 ft.

C. ☐ Distribution Box ☐ Drop Boxes

(≥ 12" inspection opening) (removable lid to inspect)

1. Material: plastic End caps.
   Number available outlets: 2per cmp
2. Factory built: ☑ Yes ☐ No
3. Distance from septic tank: 112+8'+8' ft.

D. Drainfield Absorption

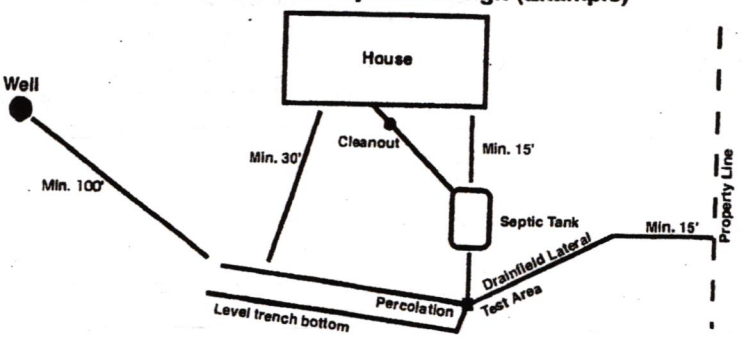
☑ Trench ☐ Bed ☐ Level Bottom

1. Type: ☐ Half rounds ☐ Perforated pipe ☐ Chambers
   Diameter or width: _____
   Number of distribution lines in bed _____
   Material: ☐ fiberglass ☐ plastic ☐ concrete
   ☐ other _____
2. Drainfield Laterals: Number 3
   Length of each line: 70 ft. 70 ft.
   70 ft. _____ ft., _____ ft.
3. Drainfield dimensions: Width 40" ft.
   Distribution Pipe Slope Flat in/100 ft.
   Average depth 21-24 in
4. Filter material: Soil
   Depth of material 21-24 in.
5. Distances to: Well or suction line 100 ft.
   Pressure line 100 ft.
   Property line 100 ft.
   House or building 100 ft.
   Lake or Stream 100 ft.

Complete As-Built drawing on the back fo this form.

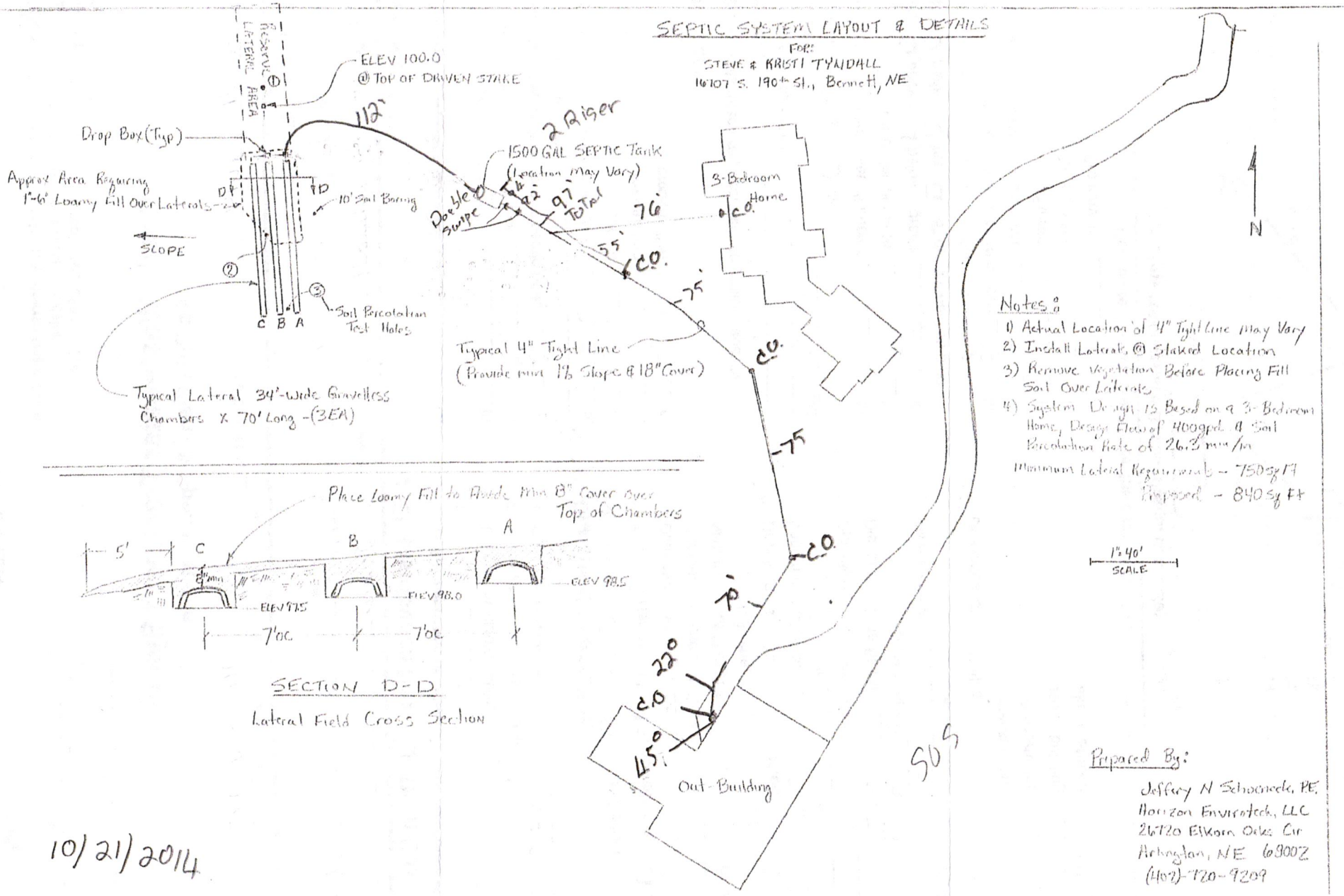
Onsite Wastewater System Design (Example)

Indicate North with Arrow



SEPTIC SYSTEM LAYOUT & DETAILS

FOR:
STEVE & KRISTI TYNDALL
16107 S. 190th St., Bennett, NE



SECTION D-D
Lateral Field Cross Section

Prepared By:
Jeffrey N Schoeneck, PE
Horizon Envirotech, LLC
21720 Elkorn Oaks Cir
Arbor, NE 68002
(402)-720-9209

10/21/2014

Raymond Contracting, Inc.
Lloyd J Jakoubek
13800 NW 70th St
Raymond, NE 68428
402-783-2663